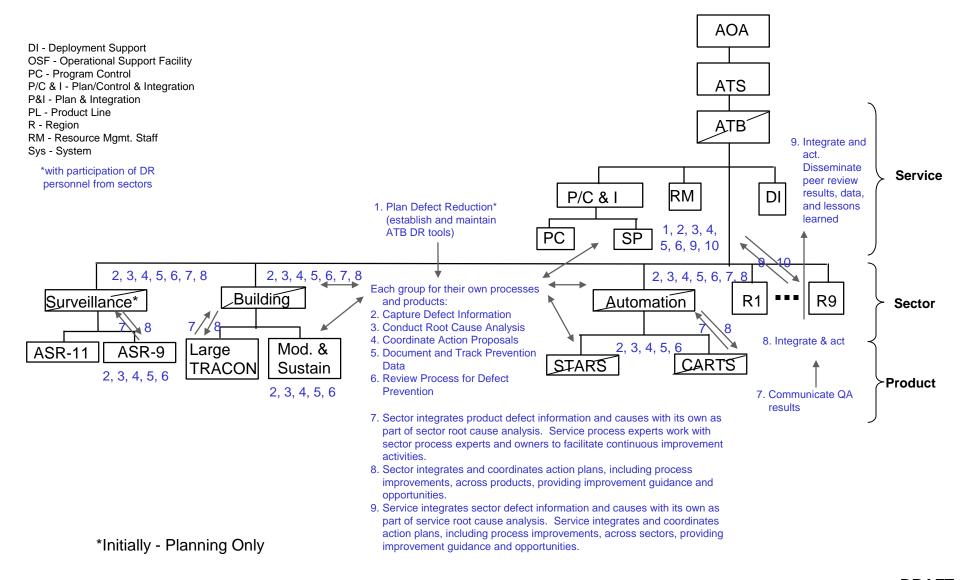
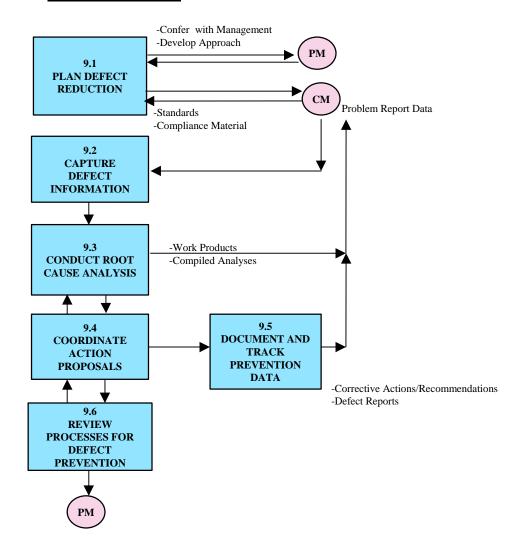
Cross ATB Defect Reduction (aka Continuous Improvement)



9.0 ATB Defect Reduction Process

Previous Process(s): All active project processes	Purpose/Definition: To determine the cause of defects and proactively work to eliminate defects thought improvement of processes, procedures, products, tools, techniques, etc.	Next Process: This process is ongoing.
Performing Agent(s): Organizational Practitioner Input(s): Compliance Material	Owner: ATB Product lead Sub-Processes: 9.1 Plan Defect Reduction 9.2 Capture Defect Information 9.3 Conduct Root Cause Analysis 9.4 Coordinate Action Plans 9.5 Document and Track Prevention Data 9.6 Review Processes for Defect Prevention	Organizational Practitioner Other PAs Auditees Service, Sector and Product Leads Output(s): Approved QAMP Process Compliance Observations and Findings QA Reports Compiled Results of Analyses Recommendations Quality Improvement Plan, if needed Metrics: Cost/schedule Time/duration Reviews and Audits: ATB Review Peer Review Peer Review Peer Review
Entry Criteria: •Product or process ready for QA activity. {As defined by the project QAMP} •JRC-2 Investment Decision •ATB Formed	Training/Tools/Handbooks/Policy: Domain Training, FAA Policies/Standards; ISO 9000; AMS; FAA-iCMM®	Exit Criteria: Quality findings are documented and reported. Recommendations for corrective actions and improvement opportunities are resolved.

Defect Reduction



9.1 Plan Defect Reduction

Previous Process(s):	Purpose/Definition:	Next Process:
Project activities resulting in defects	To establish and maintain an approach to defect reduction	9.2 Capture Defect Information
Performing Agent(s):	Owner: ATB Product lead	Organizational Practitioner
Organizational Practitioner	Sub-Processes: 9.1.1 Define Defect	• ATB
Input(s):	9.1.2 Assign Responsibility 9.1.3 Determine Applicable Standards	
 Compliance Material Mission Need Statement 	9.1.4 Develop/Update Approach 9.1.5 Implement Plan	Output(s):
 Requirements Document Investment Analysis Report Acquisition Program Baseline Acquisition Strategy Paper Integrated Program Plan Process Description Documents 		Approved Defect Reduction Plan
Product Team Plan		Metrics: •Cost/schedule
		•Time/duration
		Reviews and Audits: • ATB Review
Entry Criteria: • JRC 2 Investment Decision • ATB Formed	Training/Tools/Handbooks/Policy: Domain Training, FAA Policies/Standards; ISO 9000; AMS; FAA-iCMM®	Peer Review, ASU Review Exit Criteria: •Approval of QAMP

9.2 Capture Defect Information

Previous Process(s): 9.1 Plan Defect Reduction	Purpose/Definition: To identify and capture defect data and establish a repository.	Next Process: •9.3 Conduct Root Cause Analysis
Performing Agent(s): Organizational Practitioner	Owner: ATB Product lead Sub-Processes:	Customer(s): •Organizational Practitioner
Input(s): •Problem Reports •Resolution to Corrective Actions	9.2.1 Extract Defect Data from potential sources 9.2.2 Develop Defect Information Database 9.2.3 Review Defect Data 9.2.4 Share Data Organizationally as required	Output(s): •Process Compliance Observations and Findings
		Metrics: •Cost/schedule •Time/duration Reviews and Audits: •Peer Review
Entry Criteria: •Project Defects	Training/Tools/Handbooks/Policy: Domain Training, FAA Policies/Standards; ISO 9000; AMS; FAA-iCMM®	Exit Criteria: •Completed Process Compliance Observations and Findings

9.3 Conduct Root Cause Analysis

Previous Process(s): 9.2 Capture defect Information	Purpose/Definition:	Next Process:
9.2 Capture defect Information	To determine the root cause of a given defect.	•9.4 Analyze Quality Data
Performing Agent(s): Organizational Practitioner	Owner: ATB Product lead Sub-Processes:	Customer(s): Organizational Practitioner
Input(s): •Work Products •Process Description Documents •Approved QAMP •Resolution to Corrective Actions	9.3.1 Investigate data and begin analysis 9.3.2 Document the specific criteria to be used 9.3.3 Determine issues and activities leading to defect 9.3.4 Document cause(s)	Output(s): •Documented cause(s) Metrics:
		•Cost/schedule •Time/duration Reviews and Audits: •Peer Review
Entry Criteria: •An approved QAMP •Project work products and processes ready for evaluation/measurement	Training/Tools/Handbooks/Policy: Domain Training, FAA Policies/Standards; ISO 9000; AMS; FAA-iCMM®	Exit Criteria: •Completed products and process findings/measurements
	; QAMP	

9.4 Coordinate Action Proposals

Previous Process(s): 9.3 Conduct Root Cause Analysis	Purpose/Definition: To coordinate action proposals with project personnel.	Next Process: •9.5 Document and Track Prevention Data
Performing Agent(s): Organizational Practitioner	Owner: ATB Product lead Sub-Processes:	Customer(s): Organizational Practitioner
Input(s): •Root Cause Analysis results	9.4.1 Examine root cause analysis and develop action proposals 9.4.2 Peer Review action proposals 9.4.3 Coordinate action proposals among project personnel	Output(s): •Action proposals
		Metrics: •Cost/schedule •Time/duration Reviews and Audits: •Peer Review
Entry Criteria: •Completed Process Compliance Observations and Findings from 9.2 "AND/OR" •Completed Findings/Measurements from 9.3	Training/Tools/Handbooks/Policy: Domain Training, FAA Policies/Standards; ISO 9000; AMS; FAA-iCMM®	Exit Criteria: •Completion of Analysis

9.5 Document and Track Prevention Data

Previous Process(s):	Purpose/Definition:	Next Process:
9.4 Coordinate action proposals	To recommend Corrective Actions to Products or Processes	•9.6 Review processes for defect reduction
		Customer(s):
Performing Agent(s): •Organizational Practitioner	Owner: ATB Product lead	Organizational Practitioner
<u>Input(s)</u> :	Sub-Processes: 9.5.1 Report and record prevention data 9.5.2 Update database	
Compiled Results of Analyses		Output(s): •Reports •Updated database
		Metrics: •Cost/schedule •Time/duration Reviews and Audits:
		•Peer Review
Entry Criteria: •Completion of Analysis	Training/Tools/Handbooks/Policy: Domain Training, FAA Policies/Standards; ISO 9000; AMS; FAA-iCMM®	Exit Criteria: •All corrective actions have been identified

9.6 Review Processes for Defect Prevention

Previous Process(s): 9.5 Document and track prevention data	Purpose/Definition: To review project processes in light of past defects in an effort to prevent future defects	Next Process: •Overall defect reduction
Organizational Practitioner Input(s): •Process Descriptions	Sub-Processes: 9.6.1 Record Results 9.6.2 Prepare Reports 9.6.3 Submit Reports or Communicate Results to Applicable Groups	•ATB •Functional Leads Output(s): •QA Reports •Recommendations
Entry Criteria: •Completed corrective action identification	Training/Tools/Handbooks/Policy: Domain Training, FAA Policies/Standards; ISO 9000; AMS; FAA-iCMM®	Metrics: •Cost/schedule •Time/duration Reviews and Audits: •Peer Review •IPT/PT Review Exit Criteria: •Results have been delivered